

**ABSTRACT**

5 An electromechanical transducer comprising at least one transducer element which has a multilayer structure comprising at least two layers such that the transducer element is capable of changing its thickness. The transducer element allows air to flow inside the transducer element in the direction of thickness thereof and inside and out of the transducer element through at least one surface of the transducer element in the direction of thickness of the transducer element. The transducer element can be used e.g. for transforming energy from mechanical energy into electric energy and/or vice versa.